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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/733,412	12/12/2003	Govind Rao	UMBC-0004A	9100	
7590 10/15/2004			EXAMINER		
FLESHNER & P.O. Box 22120	•	REDDING, DAVÍD A			
Chantilly, VA	=		ART UNIT	PAPER NUMBER	
			1744		
			DATE MAILED: 10/15/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	77			
		10/733,412 🍂	RAO, GOVIND				
Office Action Summ	ary	Examiner	Art Unit				
		David A Redding	1744				
The MAILING DATE of this of Period for Reply	communication app	ears on the cover sheet	with the correspondence ad	dress			
A SHORTENED STATUTORY PE THE MAILING DATE OF THIS CO - Extensions of time may be available under the after SIX (6) MONTHS from the mailing date o - If the period for reply specified above is less th - If NO period for reply is specified above, the m - Failure to reply within the set or extended peric Any reply received by the Office later than thre earned patent term adjustment. See 37 CFR 1	MMUNICATION. provisions of 37 CFR 1.13 f this communication. an thirty (30) days, a reply aximum statutory period w dd for reply will, by statute, e months after the mailing	6(a). In no event, however, may within the statutory minimum of the ill apply and will expire SIX (6) MC cause the application to become	a reply be timely filed nirty (30) days will be considered timely DNTHS from the mailing date of this co ABANDONED (35 U.S.C. § 133)	<i>r.</i> ommunication.			
Status							
1) Responsive to communication	n(s) filed on						
2a) ☐ This action is FINAL .		action is non-final.					
3) Since this application is in coclosed in accordance with the	endition for allowan	ce except for formal ma	· · · · · · · · · · · · · · · · · · ·	merits is			
Disposition of Claims							
4) ☐ Claim(s) <u>1-14</u> is/are pending 4a) Of the above claim(s) 5) ☐ Claim(s) is/are allowe 6) ☐ Claim(s) <u>1,10,11 and 14</u> is/ar 7) ☐ Claim(s) <u>2-9,12 and 13</u> is/are 8) ☐ Claim(s) are subject to	is/are withdraw d. re rejected. e objected to.						
Application Papers							
9)☐ The specification is objected t	to by the Examiner						
10) The drawing(s) filed on	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that a	any objection to the d	rawing(s) be held in abeya	ance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) in							
11) The oath or declaration is obj	ected to by the Exa	aminer. Note the attache	ed Office Action or form PT	O-152.			
Priority under 35 U.S.C. § 119							
 Copies of the certified application from the Int 	ne of: priority documents priority documents copies of the priorit ernational Bureau	have been received. have been received in a ty documents have been (PCT Rule 17.2(a)).	Application No n received in this National S	Stage			
* See the attached detailed Offic	e action for a list o	f the certified copies no	t received.				
Attachment(s)			•				
Notice of References Cited (PTO-892)		4) Interview	Summary (PTO-413)				
P)	eview (PTO-948) -1449 or PTO/SB/08)		(s)/Mail Date Informal Patent Application (PTO- 	152)			

Application/Control Number: 10/733,412

Art Unit: 1744

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1,10,11, and 14 are rejected under 35 U.S.C. 102(b) as being anticipated by USP 5,266,486 (Fraatz et al.).

Figures 1, 2c and 5 show the embodiments which read on the claimed invention. The patent discloses a bioreactor (1) which includes three optodes (3a,3b,3c) which are optical chemical sensors used for the simultaneous detection of the changes in oxygen, carbon dioxide, and pH. The device further comprises a light source (9), a detector (11) and a two-armed light waveguide (10). The light source (9) is capable of providing a variety of excitation energies corresponding to the sensors (3a,3b,3c). Detector signals are transmitted to an evaluation unit (15) in which the chemical content is determined (col.2, lines 1-47). Figure 5 shows the embodiments which reads on claims 10 and 11.

Allowable Subject Matter

Claims 2-9,12,13, are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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As allowable subject matter has been indicated, applicant's reply must either comply with all formal requirements or specifically traverse each requirement not complied with. See 37 CFR 1.111(b) and MPEP § 707.07(a).

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The remaining US patents cited are considered to be generally related to the claimed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David A Redding whose telephone number is 571-272-1276. The examiner can normally be reached on Mon.-Fri. 6:00 - 3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Warden can be reached on 571-272-1281. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

D.A.R.

DAVID A. REDDING PRIMARY EXAMINER

David Reddy